Jianbing Shen

List of Publications by Year
in descending order

159 papers	12,723 citations	31949 53 h-index	37183 96 g-index
161 all docs	161 docs citations	161 times ranked	6006 citing authors

#	Article	IF	Citations
1	Augmentation Invariant and Instance Spreading Feature for Softmax Embedding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 924-939.	9.7	74
2	Salient Object Detection in the Deep Learning Era: An In-Depth Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3239-3259.	9.7	259
3	Cascaded Parsing of Human-Object Interaction Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2827-2840.	9.7	57
4	Person Re-Identification by Context-Aware Part Attention and Multi-Head Collaborative Learning. IEEE Transactions on Information Forensics and Security, 2022, 17, 115-126.	4.5	36
5	Person Foreground Segmentation by Learning Multi-Domain Networks. IEEE Transactions on Image Processing, 2022, 31, 585-597.	6.0	4
6	Deep Learning for Person Re-Identification: A Survey and Outlook. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2872-2893.	9.7	686
7	Understanding More About Human and Machine Attention in Deep Neural Networks. IEEE Transactions on Multimedia, 2021, 23, 2086-2099.	5.2	26
8	Paying Attention to Video Object Pattern Understanding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2413-2428.	9.7	71
9	Visible-Infrared Person Re-Identification via Homogeneous Augmented Tri-Modal Learning. IEEE Transactions on Information Forensics and Security, 2021, 16, 728-739.	4.5	162
10	Video person re-identification with global statistic pooling and self-attention distillation. Neurocomputing, 2021, 453, 777-789.	3.5	8
11	Revisiting Video Saliency Prediction in the Deep Learning Era. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 220-237.	9.7	174
12	Dynamical Hyperparameter Optimization via Deep Reinforcement Learning in Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1515-1529.	9.7	122
13	Siamese Network for RGB-D Salient Object Detection and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	76
14	Re-thinking Co-Salient Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	57
15	MSB-FCN: Multi-Scale Bidirectional FCN for Object Skeleton Extraction. IEEE Transactions on Image Processing, 2021, 30, 2301-2312.	6.0	12
16	Improving Single Shot Object Detection With Feature Scale Unmixing. IEEE Transactions on Image Processing, 2021, 30, 2708-2721.	6.0	11
17	One-Stage Anchor-Free 3D Vehicle Detection from LiDAR Sensors. Sensors, 2021, 21, 2651.	2.1	13
18	Real-time and light-weighted unsupervised video object segmentation network. Pattern Recognition, 2021, 120, 108120.	5.1	31

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19	RGB-D salient object detection: A survey. Computational Visual Media, 2021, 7, 37-69.	10.8	152
20	Hierarchical Human Semantic Parsing with Comprehensive Part-Relation Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	26
21	Capturing Relevant Context for Visual Tracking. IEEE Transactions on Multimedia, 2021, 23, 4232-4244.	5.2	9
22	Learning to Fuse Asymmetric Feature Maps in Siamese Trackers. , 2021, , .		51
23	Video Object Segmentation Using Global and Instance Embedding Learning. , 2021, , .		29
24	Full-Duplex Strategy for Video Object Segmentation. , 2021, , .		59
25	Text Image Deblurring Using Kernel Sparsity Prior. IEEE Transactions on Cybernetics, 2020, 50, 997-1008.	6.2	14
26	Adaptive Nonlocal Random Walks for Image Superpixel Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 822-834.	5.6	16
27	Inferring Salient Objects from Human Fixations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1913-1927.	9.7	134
28	Motion-Aware Rapid Video Saliency Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4887-4898.	5.6	28
29	Visual Object Tracking by Hierarchical Attention Siamese Network. IEEE Transactions on Cybernetics, 2020, 50, 3068-3080.	6.2	113
30	Video Saliency Prediction Using Spatiotemporal Residual Attentive Networks. IEEE Transactions on Image Processing, 2020, 29, 1113-1126.	6.0	96
31	Local Semantic Siamese Networks for Fast Tracking. IEEE Transactions on Image Processing, 2020, 29, 3351-3364.	6.0	108
32	Multiple people tracking with articulation detection and stitching strategy. Neurocomputing, 2020, 386, 18-29.	3.5	16
33	Multi-attention deep reinforcement learning and re-ranking for vehicle re-identification. Neurocomputing, 2020, 414, 27-35.	3.5	7
34	MATNet: Motion-Attentive Transition Network for Zero-Shot Video Object Segmentation. IEEE Transactions on Image Processing, 2020, 29, 8326-8338.	6.0	133
35	Learning Video Object Segmentation From Unlabeled Videos. , 2020, , .		102
36	Reducing Estimation Bias via Triplet-Average Deep Deterministic Policy Gradient. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4933-4945.	7.2	34

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37	A Retrospective Comparison of Deep Learning to Manual Annotations for Optic Disc and Optic Cup Segmentation in Fundus Photographs. Translational Vision Science and Technology, 2020, 9, 33.	1.1	11
38	CLNet: A Compact Latent Network for Fast Adjusting Siamese Trackers. Lecture Notes in Computer Science, 2020, , 378-395.	1.0	56
39	Video Object Segmentation with Episodic Graph Memory Networks. Lecture Notes in Computer Science, 2020, , 661-679.	1.0	133
40	Zero-Shot Video Object Segmentation with Co-Attention Siamese Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	67
41	Deep Object Tracking with Shrinkage Loss. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	41
42	Efficient Light Deep Network for Street Scene Parsing. , 2020, , .		0
43	Robust Object Tracking Using Manifold Regularized Convolutional Neural Networks. IEEE Transactions on Multimedia, 2019, 21, 510-521.	5.2	42
44	A Deep Network Solution for Attention and Aesthetics Aware Photo Cropping. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1531-1544.	9.7	251
45	Stereo Video Object Segmentation Using Stereoscopic Foreground Trajectories. IEEE Transactions on Cybernetics, 2019, 49, 3665-3676.	6.2	13
46	Multi-scale Capsule Attention-Based Salient Object Detection with Multi-crossed Layer Connections. , 2019, , .		15
47	High-speed video salient object detection with temporal propagation using correlation filter. Neurocomputing, 2019, 356, 107-118.	3.5	6
48	A deep Coarse-to-Fine network for head pose estimation from synthetic data. Pattern Recognition, 2019, 94, 196-206.	5.1	65
49	Quadruplet Network With One-Shot Learning for Fast Visual Object Tracking. IEEE Transactions on Image Processing, 2019, 28, 3516-3527.	6.0	155
50	Submodular Function Optimization for Motion Clustering and Image Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2637-2649.	7.2	42
51	Towards Bridging Semantic Gap to Improve Semantic Segmentation. , 2019, , .		74
52	Zero-Shot Video Object Segmentation via Attentive Graph Neural Networks. , 2019, , .		184
53	Salient Object Detection With Pyramid Attention and Salient Edges. , 2019, , .		320
54	Human-Aware Motion Deblurring. , 2019, , .		136

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55	Learning Compositional Neural Information Fusion for Human Parsing. , 2019, , .		80
56	Learning Unsupervised Video Object Segmentation Through Visual Attention. , 2019, , .		157
57	See More, Know More: Unsupervised Video Object Segmentation With Co-Attention Siamese Networks. , 2019, , .		317
58	Shifting More Attention to Video Salient Object Detection. , 2019, , .		304
59	A stable long-term object tracking method with re-detection strategy. Pattern Recognition Letters, 2019, 127, 119-127.	2.6	12
60	Editorial: Booming of Neural Networks and Learning Systems. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2-10.	7.2	1
61	Semi-Supervised Video Object Segmentation with Super-Trajectories. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 985-998.	9.7	123
62	Better Dense Trajectories by Motion in Videos. IEEE Transactions on Cybernetics, 2019, 49, 159-170.	6.2	17
63	Multiobject Tracking by Submodular Optimization. IEEE Transactions on Cybernetics, 2019, 49, 1990-2001.	6.2	64
64	ET-Net: A Generic Edge-aTtention Guidance Network for Medical Image Segmentation. Lecture Notes in Computer Science, 2019, , 442-450.	1.0	115
65	Double-Row License Plate Segmentation with Convolutional Neural Networks. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2019, 31, 1320.	0.2	4
66	Submodular Trajectories for Better Motion Segmentation in Videos. IEEE Transactions on Image Processing, 2018, 27, 2688-2700.	6.0	83
67	Facial landmark detection by semi-supervised deep learning. Neurocomputing, 2018, 297, 22-32.	3.5	32
68	Deep Visual Attention Prediction. IEEE Transactions on Image Processing, 2018, 27, 2368-2378.	6.0	489
69	Video Saliency Detection Using Object Proposals. IEEE Transactions on Cybernetics, 2018, 48, 3159-3170.	6.2	81
70	Robust Object Tracking by Nonlinear Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4769-4781.	7.2	15
71	Fast Online Tracking With Detection Refinement. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 162-173.	4.7	78
72	Robust Stereoscopic Crosstalk Prediction. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1158-1168.	5.6	0

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73	Manifold Regularized Correlation Object Tracking. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1786-1795.	7.2	37
74	Saliency-Aware Video Object Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 20-33.	9.7	376
75	Video Co-Saliency Guided Co-Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1727-1736.	5.6	61
76	Video Salient Object Detection via Fully Convolutional Networks. IEEE Transactions on Image Processing, 2018, 27, 38-49.	6.0	520
77	Attentive Fashion Grammar Network for Fashion Landmark Detection and Clothing Category Classification. , 2018, , .		166
78	Salient Object Detection Driven by Fixation Prediction. , 2018, , .		122
79	Revisiting Video Saliency: A Large-Scale Benchmark and a New Model. , 2018, , .		160
80	Hyperparameter Optimization for Tracking with Continuous Deep Q-Learning. , 2018, , .		98
81	Pyramid Dilated Deeper ConvLSTM for Video Salient Object Detection. Lecture Notes in Computer Science, 2018, , 744-760.	1.0	257
82	Parallel and efficient approximate nearest patch matching for image editing applications. Neurocomputing, 2018, 305, 39-50.	3.5	33
83	Scene text recognition using residual convolutional recurrent neural network. Machine Vision and Applications, 2018, 29, 861-871.	1.7	26
84	Learning Human-Object Interactions by Graph Parsing Neural Networks. Lecture Notes in Computer Science, 2018, , 407-423.	1.0	243
85	Triplet Loss in Siamese Network for Object Tracking. Lecture Notes in Computer Science, 2018, , 472-488.	1.0	342
86	Diffusion-based saliency detection with optimal seed selection scheme. Neurocomputing, 2017, 239, 94-101.	3.5	4
87	Occlusion-Aware Real-Time Object Tracking. IEEE Transactions on Multimedia, 2017, 19, 763-771.	5.2	195
88	Stereoscopic Thumbnail Creation via Efficient Stereo Saliency Detection. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 2014-2027.	2.9	122
89	Visual Tracking by Sampling in Part Space. IEEE Transactions on Image Processing, 2017, 26, 5800-5810.	6.0	15
90	Selective Video Object Cutout. IEEE Transactions on Image Processing, 2017, 26, 5645-5655.	6.0	25

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91	Higher Order Energies for Image Segmentation. IEEE Transactions on Image Processing, 2017, 26, 4911-4922.	6.0	71
92	Hierarchical Superpixel-to-Pixel Dense Matching. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2518-2526.	5.6	19
93	Single-Image Distance Measurement by a Smart Mobile Device. IEEE Transactions on Cybernetics, 2017, 47, 4451-4462.	6.2	13
94	Deep Cropping via Attention Box Prediction and Aesthetics Assessment. , 2017, , .		75
95	Super-Trajectory for Video Segmentation. , 2017, , .		30
96	Generalized Pooling for Robust Object Tracking. IEEE Transactions on Image Processing, 2016, 25, 1-1.	6.0	54
97	Consistent 2D-to-3D video conversion using spatial-temporal nonlocal random walks. , 2016, , .		1
98	Higher-Order Image Co-segmentation. IEEE Transactions on Multimedia, 2016, 18, 1011-1021.	5.2	65
99	Real-Time Superpixel Segmentation by DBSCAN Clustering Algorithm. IEEE Transactions on Image Processing, 2016, 25, 5933-5942.	6.0	281
100	Visual Tracking Under Motion Blur. IEEE Transactions on Image Processing, 2016, 25, 5867-5876.	6.0	65
101	Correspondence Driven Saliency Transfer. IEEE Transactions on Image Processing, 2016, 25, 5025-5034.	6.0	126
102	Augmented reality based real-time subcutaneous vein imaging system. Biomedical Optics Express, 2016, 7, 2565.	1.5	44
103	Sub-Markov Random Walk for Image Segmentation. IEEE Transactions on Image Processing, 2016, 25, 516-527.	6.0	183
104	High-Order Energies for Stereo Segmentation. IEEE Transactions on Cybernetics, 2016, 46, 1616-1627.	6.2	44
105	Discriminative Tracking Using Tensor Pooling. IEEE Transactions on Cybernetics, 2016, 46, 2411-2422.	6.2	56
106	Video Supervoxels Using Partially Absorbing Random Walks. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 928-938.	5.6	37
107	Superpixel Optimization Using Higher Order Energy. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 917-927.	5.6	24
108	Linearization to Nonlinear Learning for Visual Tracking. , 2015, , .		27

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109	Saliency-aware geodesic video object segmentation. , 2015, , .		312
110	Consistent Video Saliency Using Local Gradient Flow Optimization and Global Refinement. IEEE Transactions on Image Processing, 2015, 24, 4185-4196.	6.0	326
111	Video Object Segmentation Via Dense Trajectories. IEEE Transactions on Multimedia, 2015, 17, 2225-2234.	5.2	59
112	Segmentation Using SubMarkov Random Walk. Lecture Notes in Computer Science, 2015, , 237-248.	1.0	7
113	Structured-Patch Optimization for Dense Correspondence. IEEE Transactions on Multimedia, 2015, 17, 295-306.	5.2	7
114	Robust Video Object Cosegmentation. IEEE Transactions on Image Processing, 2015, 24, 3137-3148.	6.0	124
115	Accurate Normal and Reflectance Recovery Using Energy Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 212-224.	5.6	11
116	Visual Tracking Using Strong Classifier and Structural Local Sparse Descriptors. IEEE Transactions on Multimedia, 2015, 17, 1818-1828.	5.2	106
117	Interactive Cosegmentation Using Global and Local Energy Optimization. IEEE Transactions on Image Processing, 2015, 24, 3966-3977.	6.0	70
118	Robust Match Fusion Using Optimization. IEEE Transactions on Cybernetics, 2015, 45, 1549-1560.	6.2	38
119	Learning to detect stereo saliency. , 2014, , .		9
120	Stereoscopic 3D crosstalk prediction. , 2014, , .		1
121	Exposure Fusion Using Boosting Laplacian Pyramid. IEEE Transactions on Cybernetics, 2014, 44, 1579-1590.	6.2	137
122	Supervoxel using random walks. , 2014, , .		0
123	Interactive Segmentation Using Constrained Laplacian Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 1088-1100.	5.6	78
124	Re-texturing by intrinsic video. Information Sciences, 2014, 281, 726-735.	4.0	10
125	Lazy Random Walks for Superpixel Segmentation. IEEE Transactions on Image Processing, 2014, 23, 1451-1462.	6.0	292
126	A new sparse feature-based patch for dense correspondence. , 2014, , .		0

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127	Depth-Aware Image Seam Carving. IEEE Transactions on Cybernetics, 2013, 43, 1453-1461.	6.2	58
128	Automatic image vectorization using superpixels and random walkers. , 2013, , .		2
129	Saliency Cut in Stereo Images. , 2013, , .		11
130	Intrinsic Image Decomposition Using Optimization and User Scribbles. IEEE Transactions on Cybernetics, 2013, 43, 425-436.	6.2	69
131	HDR IMAGE RERENDERING USING GPU-BASED PROCESSING. International Journal of Image and Graphics, 2012, 12, 1250007.	1.2	1
132	Interactive image/video retexturing using GPU parallelism. Computers and Graphics, 2012, 36, 1048-1059.	1.4	16
133	Superpixels using random walker. , 2012, , .		0
134	Fast DCT-based image saliency detection. , 2012, , .		1
135	Image stylization with enhanced structure on GPU. Science China Information Sciences, 2012, 55, 1093-1105.	2.7	12
136	Detail-preserving exposure fusion using subband architecture. Visual Computer, 2012, 28, 463-473.	2.5	17
137	Efficient image/video retexturing using parallel bilateral grids. , 2011, , .		2
138	Intrinsic images using optimization. , 2011, , .		97
139	A unified framework for designing textures using energy optimization. Pattern Recognition, 2010, 43, 457-469.	5.1	3
140	Fast gradient-aware upsampling for cartoon video. , 2010, , .		0
141	Re-texturing by Intrinsic Video. , 2010, , .		3
142	Subband Architecture Based Exposure Fusion. , 2010, , .		1
143	Mesh-guided texture replacement using intrinsic images. , 2010, , .		0
144	Depth-Aware Video Abstraction. , 2010, , .		2

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145	Fast and Reliable Mouse Picking Using Graphics Hardware. International Journal of Computer Games Technology, 2009, 2009, 1-7.	1.6	4
146	Real-time photo style transfer. , 2009, , .		5
147	AtelierM++: a fast and accurate marbling system. Multimedia Tools and Applications, 2009, 44, 187-203.	2.6	11
148	Real-time saliency-aware video abstraction. Visual Computer, 2009, 25, 973-984.	2.5	22
149	Fast approximation of trilateral filter for tone mapping using a signal processing approach. Signal Processing, 2009, 89, 901-907.	2.1	21
150	Fast Shape-Simplifying Image Abstraction Using Graphics Hardware. Lecture Notes in Computer Science, 2009, , 390-398.	1.0	1
151	Real-time feature-aware video abstraction. Visual Computer, 2008, 24, 727-734.	2.5	26
152	Gradient based image completion by solving the Poisson equation. Computers and Graphics, 2007, 31, 119-126.	1.4	57
153	Deformation-based interactive texture design using energy optimization. Visual Computer, 2007, 23, 631-639.	2.5	7
154	High dynamic range image tone mapping and retexturing using fast trilateral filtering. Visual Computer, 2007, 23, 641-650.	2.5	12
155	Feature-Based Texture Design Using Deformation Techniques. , 2007, , 730-739.		1
156	Completion-based texture design using deformation. Visual Computer, 2006, 22, 936-945.	2.5	16
157	Dynamic Textures Using Wavelet Analysis. Lecture Notes in Computer Science, 2006, , 1070-1073.	1.0	3
158	Simple and Fast Terrain Rendering Using Graphics Hardware. Lecture Notes in Computer Science, 2006, , 715-723.	1.0	1
159	A Color Image Encryption Algorithm Based on Magic Cube Transformation and Modular Arithmetic Operation. Lecture Notes in Computer Science, 2005, , 270-280.	1.0	26